

Ge30 Plus Detector Setup Program – Quick Guide

Running Ge30

Log into the beamline computer and open a DECterm. At the VMS prompt, type GE30.

Checking Counts

To check the count rate, press the **Show Counts** button. In the Counts window, press the **Count** button. The maximum ICRs for different shaping times are listed below:

Shaping Time (μ Sec)	Suggested Max. ICR (cps)	Detector Element Color Indicators
0.125	110,000	Red - ICR > 110,000
0.250	70,000	Orange - 70,000 < ICR < 110,000
0.500	40,000	Black - ICR < 70,000

Collecting An MCA Trace

To collect a spectrum, press the **Start** button in the MCA CONTROL section. To stop acquisition, press the **Stop** button. Press **Clear** to clear the display.

To zoom in on a section of the spectrum, click and drag a box in the lower portion of the plotting area. To display a cursor, click in the upper portion of the plotting area. This will update the **Channel**, **Energy**, and **Counts** at the top of the window.

Setting SCA Windows

To activate an SCA window, press one of the toggle buttons labeled **SCA 1** or **SCA 2** in the SCA CONTROL section. We recommend the following windowing procedure:

1. In the **CENT.** text field, enter the energy of the peak you are windowing. In the **WIDTH** text field, enter a reasonable width. Press <Enter> to apply the window for the selected detector element.
2. Check the window position by acquiring a spectrum. To display the spectrum in Coincidence, press the **Coinc.** button. Press **AntiCoin.** for Anti-Coincidence.
3. Adjust the window by pressing the centroid and width up/down arrow buttons.
4. Press the **Apply To All** button, and press **Ok** in the message window that appears.
5. Check the window position for each detector element by acquiring a spectrum for each element. Adjust each window by pressing the up/down arrow buttons.

Exiting and Restarting Ge30

You must exit Ge30 by using the **Exit** menu item in the **File** menu. If the program does not exit correctly – for example, if Ge30 crashes – the appropriate exit functions are not called. If problems occur when restarting Ge30, issue the command MCADELETE at the VMS prompt.

Detector Files in XAS Data Collector

If you are collecting data with one set of SCA windows, you need to use the XAS-Collect detector file GE30ICR.DET. If you are using two sets of SCA windows, use the

GE30ICRF.DET detector file. To obtain these files, go to the **Detectors** menu in XAS and select **New**. Select the appropriate file from the list and press **Apply**.